

Attachment(s) Page 6



FORM PTO-1449 (Modified)

JUN 25 2001

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTATTY. DOCKET NO.
24737-1906BSERIAL NO.
09/704,362APPLICANT
Ramnarayan et al.FILING DATE
November 1, 2000GROUP
2857
1631

TECH CENTER 1600/2900

AUG 24 2001

RECEIVED

Translation
Yes No

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No
JB		0 1 3 5 3 1 6	05/17/01	PCT			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

RECEIVED
JUN 27 2001
TC 2800 MAIL ROOM

EXAMINER

J.B. Brueck

DATE CONSIDERED 8/8/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

attachment & Paper 8

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT								ATTY. DOCKET NO. 24737-1906B	SERIAL NO. 09/704,362						
								APPLICANT Ramnarayan <i>et al.</i>							
								FILING DATE November 01, 2000	GROUP 2857/1831	MAR 21 2002 TECH CENTER 1600/2900					

RECEIVED

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE	
<i>JB</i>	AA	5	0	3	3	1	5	7	3	07/19/94	Balaji <i>et al.</i>	364	500	12/14/90
	AB	5	6	0	7	9	2	5	0	11/26/96	Balaji <i>et al.</i>	364	496	04/24/95
	AC	5	6	1	1	2	8	9	5	03/18/97	Balaji <i>et al.</i>	364	496	04/21/95
	AD	5	8	0	8	5	6	9	9	09/15/98	Arnaud <i>et al.</i>	367	103	12/04/95
	AE	5	8	3	7	4	6	4	4	11/17/98	Capon <i>et al.</i>	435	6	01/29/97
	AF	5	8	4	6	7	6	3	3	12/08/98	Lee <i>et al.</i>	435	69.1	05/13/94
<i>JB</i>	AG	5	9	1	0	4	9	8	8	06/08/99	Hlavka <i>et al.</i>	514	9	09/20/96

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes	No
<i>JB</i>	AH	0	Duplicate	5	1	3	0	9	09/28/00	PCT				
<i>JB</i>	AI	9	5	0	6	2	9	3	03/02/95	PCT				
<i>JB</i>	AJ	9	5	1	4	0	2	8	05/26/95	PCT				
<i>JB</i>	AK	9	Duplicate	7	3	1	9		07/31/97	PCT				
<i>JB</i>	AL	9	Duplicate	7	4	8	0		07/31/97	PCT				
<i>JB</i>	AM	9	8	0	6	0	4	8	02/12/98	PCT				
<i>JB</i>	AN	9	8	1	3	7	8	1	04/02/98	PCT				
<i>JB</i>	AO	9	8	5	4	6	6	5	12/03/98	PCT				
<i>JB</i>	AP	9	9	0	6	5	9	7	02/11/99	PCT				

EXAMINER

JB. Bussa

DATE CONSIDERED

8/8/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **USE OF COMPUTATIONALLY DERIVED PROTEIN STRUCTURES OF GENETIC POLYMORPHISMS IN PHARMACOGENOMICS FOR DRUG DESIGN AND CLINICAL APPLICATIONS**

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
24737-1906BSERIAL NO.
09/704,362

TECH CENTER 1600/2900

MAR 21 2002

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
Ramnarayan *et al.*FILING DATE
November 01, 2000GROUP
2857 1631

RECEIVED

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>BB</i>	AQ	Abagyan <i>et al.</i> "Biased Probability Monte Carlo Conformational Searches and Electrostatic Calculations for Peptides and Proteins," <i>J. Mol. Biol.</i> <u>235</u> : 983-1002 (1994).
<i>BB</i>	AR	Abdel-Meguid, S.S. <i>et al.</i> "An orally bioavailable HIV-1 protease inhibitor containing an imidazole-derived peptide bond replacement: crystallographic and pharmacokinetic analysis," <i>Biochemistry</i> <u>33</u> (39):11671-11677 (1994)
<i>BB</i>	AS	Altschul <i>et al.</i> "Basic Local Alignment Search Tool," <i>J. Mol. Biol.</i> <u>215</u> : 403-10 (1990).
<i>BB</i>	AT	Balasubramanian, R. "New type of representation for mapping chain-folding in protein molecules," <i>Proteins</i> <u>6</u> : 856-57 (1977).
<i>BB</i>	AU	Blaney, R. "Molecular modelling in the pharmaceutical industry, <i>Chemistry and Industry. Chemistry and Industry Review</i> <u>23</u> (4):791-4 (1990).
<i>not considered</i>	AV	<i>Biocomputing: Informatics and Genome Projects</i> Smith, D.W., ed. Academic Press, Inc., San Diego (1994). <i>no copy provided</i>
<i>BB</i>	AW	Bohm, G. "New approaches in molecular structure prediction" <i>Biophysical Chemistry</i> <u>59</u> :1-32 (1996)
<i>BB</i>	AX	Bouras <i>et al.</i> "Design, Synthesis, and Evaluation of Conformationally Constrained Tongs, New Inhibitors of HIV-1 Protease Dimerization," <i>J. Med. Chem.</i> <u>42</u> : 957-62 (1999).
<i>BB</i>	AY	Carillo, H. and D. Lipman., "The Multiple Sequence Alignment Problem in Biology," <i>SIAM J. Appl. Math.</i> <u>48</u> (5): 1073-82 (1988).
<i>not considered</i>	AZ	<i>Computational Molecular Biology: Sources and Methods for Sequence Analysis</i> Lesk, A.M., ed. Oxford University Press, New York (1988) <i>no copy provided</i>
<i>BB</i>	BA	Devereux <i>et al.</i> "A comprehensive set of sequence analysis programs for the VAX," <i>nuc. Acids Res.</i> <u>12</u> : 387-95 (1984).
<i>not considered</i>	BB	Dialog #03523908 JICST Acc. No.: 98A0122627 English language description of Habuka, Noriyaki, "Crystal structure of HCV NS3 protease," <i>Jikken Igaku</i> <u>15</u> (19): 2308-13 (1997). <i>no translation or statement of relevance</i>
<i>BB</i>	BC	Dudek <i>et al.</i> "Protein Structure Prediction Using a Combination of Sequence Homology and Global Energy Minimization: II. Energy Functions," <i>Journal Computational Chemistry</i> <u>19</u> : 548-73 (1998).
<i>BB</i>	BD	Goodsell, D.S. and A. J. Olson, "Automated Docking of Substrates to Proteins by Simulated Annealing," <i>Proteins: Structure Function, and Genetics</i> <u>8</u> : 195-202 (1990).

EXAMINER

J.S. Brusca

DATE CONSIDERED

8/8/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: USE OF COMPUTATIONALLY DERIVED PROTEIN STRUCTURES OF GENETIC
POLYMORPHISMS IN PHARMACOGENOMICS FOR DRUG DESIGN AND CLINICAL
APPLICATIONS

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
24737-1906BSERIAL NO.
09/704,362LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENTAPPLICANT
Ramnarayan *et al.*FILING DATE
November 01, 2000GROUP
2857/631

TECH CENTER 1600/2900

MAR 21 2002

RECEIVED

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>JB</i>	BE	Gribskov, M. and R.R. Burgess., "Sigma factors from <i>E. coli</i> , <i>B. subtilis</i> , phage SP01, and phage T4 are homologous proteins," <i>Nucl. Acids Res.</i> <u>14</u> (1): 6745-63 (1986).
<i>not considered</i>	BF	<i>Guide to Human Genome Computing</i> -Bishop, M., ed. Academic Press, Inc., San Diego (1994). <i>no copy provided</i>
<i>JB</i>	BG	Gulnik <i>et al.</i> , "Kinetic Characterization and Cross-Resistance Patterns of HIV-1 Protease Mutants Selected under Drug Pressure," <i>Biochemistry</i> <u>35</u> : 9282-7 (1995).
<i>not considered</i>	BH	Habuka <i>et al.</i> , "Crystal Structure of HCV NS3 protease," <i>Jikken Igaku</i> <u>15</u> (19): 2308-13 (1997). <i>no translation or statement of relevance</i>
<i>JB</i>	BI	Jacobsen <i>et al.</i> , "Characterization of Human Immunodeficiency Virus Type 1 Mutants with Decreased Sensitivity to Protease Inhibitor Ro 31-8959," <i>Virology</i> <u>206</u> : 527-34 (1995).
<i>JB</i>	BJ	Kim <i>et al.</i> , "Crystal Structure of the Hepatitis C virus Ns3 Protease Domain complexed with a Synthetic NS4A Cofactor Peptide," <i>Cell</i> <u>87</u> : 343-355 (1996).
<i>JB</i>	BK	Klabe <i>et al.</i> , "Resistance to HIV Protease Inhibitors: a Comparison of Enzyme Inhibition and Antiviral Potency," <i>Biochemistry</i> <u>37</u> : 8735-42 (1998).
<i>JB</i>	BL	Kohlstaedt <i>et al.</i> , "Crystal Structure at 3.5 Angstrom Resolution of HIV-1 Reverse Transcriptase Complexed with an Inhibitor," <i>Science</i> <u>256</u> : 1783-1790 (1992).
	BM	Kroeger <i>et al.</i> , "Molecular modeling of HIV-1 reverse transcriptase drug-resistant mutant strains; implications for the mechanism of polymerase action," <i>Protein Engineering</i> <u>10</u> (12): 1379-1383 (1997).
	BN	Kuntz <i>et al.</i> , "Structure-Based Strategies for Drug Design and Discovery," <i>Science</i> <u>257</u> : 1078-82 (1992).
	BO	Kuntz <i>et al.</i> , "A Geometric Approach to Macromolecule-Ligand Interactions," <i>J. Mol. Biol.</i> <u>161</u> : 269-288 (1982).
	BP	Lambert, M., "Docking Conformationally Flexible Molecules into Protein Binding Sites," in <i>Practical Application of Computer-Aided Drug Design</i> , Charifson, ed. Marcel Dekker, NY, pp.243-303. (1997).
<i>not considered</i>	BQ	Maschera <i>et al.</i> , "Human Immunodeficiency Virus," <i>J. Biol. Chem.</i> <u>271</u> (52): 33231-5 (1996). <i>N/</i>
<i>not considered</i>	BR	<i>Methods in Molecular Biology</i> vol. 24, "Computer Analysis of Sequence Data, Part 1." Griffin, A. and H.G. Griffin, eds. Humana Press, Inc. Totowa, New Jersey (1994). <i>no copy provided</i>

EXAMINER

J.B. Bruser

DATE CONSIDERED

8/8/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: USE OF COMPUTATIONALLY DERIVED PROTEIN STRUCTURES OF GENETIC
POLYMORPHISMS IN PHARMACOGENOMICS FOR DRUG DESIGN AND CLINICAL
APPLICATIONS

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 24737-1906B	SERIAL NO. 09/704,362
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Ramnarayan <i>et al.</i>	
		FILING DATE November 01, 2000	GROUP <u>2857 / 631</u>

TECH CENTER 1600/2900

MAR 21 2002

RECEIVED

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>BB</i>	BD	Momany <i>et al.</i> "Energy Parameters in Polypeptides. VII. Geometric Parameters, Partial Atomic Charges, Nonbonded Interactions, Hydrogen Bond Interactions, and Intrinsic Torsional Potentials for the Naturally Occuring Amino Acids," <i>The Journal of Physical Chemistry</i> <u>79</u> (22): 2361-81 (1975).
<i>BB</i>	BT	Murcko, M.A., "An Introduction to De Novo Ligand Design," in <i>Practical Application of Computer-Aided Drug Design</i> , Charifson, ed. Mercel Dekker, NY, pp.305-354. (1997).
	BU	Needleman, S.B. and C.D. Wunsch., "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins," <i>J. Mol. Biol.</i> <u>48</u> : 443-53 (1970).
	BV	Nemethy <i>et al.</i> "Energy Parameters in Polypeptides. 10. Improved Geometrical Parameters and Nonbonded Interactions for Use in the EEP/3 Algorithm, with Application to Proline-Containing Peptides," <i>J. Phys. Chem.</i> <u>96</u> : 6472-84 (1992).
	BW	Pazhanisamy <i>et al.</i> "Kinetic Characterization of Human Immunodeficiency Virus Type-1 Protease-resistant Variants," <i>J. Biol. Chem.</i> <u>271</u> (30): 17979-85 (1996).
<i>BB</i>	BX	Pearson, W.R. and D.J. Lipman., "Improved tools for biological comparison," <i>Proc. Natl. Acad. Sci. USA</i> <u>85</u> : 2444-8 (1988).
<i>BB</i>	BY	<i>QSAR and Drug Design: New Developments and Applications</i> T. Fugita, ed. Elsevier Science B.V. (1995) pp.3-81.
<i>BB</i>	BZ	Ramnarayan <i>et al.</i> "The effect of polarization energy on the free energy perturbation calculation," <i>J. Chem. Phys.</i> <u>92</u> (12): 7057-67 (1990).
<i>not considered</i>	CA	Richter, R., "AIDS drugs found to be effective in world's most common HIV strains" January 20, 1999. <i>no place of publication</i>
<i>BB</i>	CB	Schapira <i>et al.</i> "Prediction of the binding energy for small molecules, peptides, and proteins," <i>J. Mol. Recognition</i> <u>12</u> : 177-90 (1999).
<i>BB</i>	CC	Schwartz, R.M. and M.O. Dayhoff., "Matrices for Detecting Distant Relationships," Chapter 23 of: <i>Atlas of Protein Sequence and Structure</i> Dayhoff, M.O. ed. National Biomedical Research Foundation pp.353-8 (1978).
<i>not considered</i>	CD	<i>Sequence Analysis in Molecular Biology: Treasure Trove or Trivial Pursuit</i> von Heijne, G., ed. Academic Press, Inc. San Diego (1987). <i>copy with profound</i>
<i>BB</i>	CE	Shafer <i>et al.</i> "Human Immunodeficiency Virus reverse Transcriptase and Protease Sequence Database," <i>Nucl. Acids Res.</i> <u>27</u> (1): 348-52 (1999).

EXAMINER

*J.B. Brusca*DATE CONSIDERED 8/8/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: **USE OF COMPUTATIONALLY DERIVED PROTEIN STRUCTURES OF GENETIC POLYMORPHISMS IN PHARMACOGENOMICS FOR DRUG DESIGN AND CLINICAL APPLICATIONS**

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 24737-1906B	SERIAL NO. 09/704,362
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Ramnarayan <i>et al.</i>	
		FILING DATE November 01, 2000	GROUP 2857 / 63/

TECH CENTER 1600/2900

MAR 21 2002

RECEIVED

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>JB</i>	CF	Shafer <i>et al.</i> "Identification of Biased Amino Acid Substitution Patterns in Human Immunodeficiency Virus Type 1 Isolates from Patients Treated with Protease Inhibitors," <i>Journal of Virology</i> 73(7): 6197-6202 (1999).
<i>JB</i>	CG	Shenderovich, <i>et al.</i> , "Structural Pharmacogenomic Approach to the Evaluation of Drug Resistant Mutations and HIV-1 Protease", <i>Journal of Clinical Ligand Assay</i> , 24(2):140-144 (2001)
<i>JB</i>	CH	Shoichet, B.K. and I.D. Kuntz, "Protein docking and Complementarity," <i>J. Mol. Biol.</i> 221: 327-46 (1991)
<i>JB</i>	CI	Shoichet <i>et al.</i> "Structure-Based Discovery of Inhibitors of Thymidylate Synthase," <i>Science</i> 259: 1445-50 (1993).
<i>JB</i>	CJ	Smith, T F. and M. S. Waterman., "Comparison of Biosequences," <i>Adv. Appl. Math.</i> 2: 482-489 (1981).
<i>JB</i>	CK	Stewart <i>et al.</i> "Automated 3D Decking: Inhibitors of α -Chymotrypsin," <i>Medicinal Chemistry Research</i> 1: 439-443 (1992).
<i>JB</i>	CL	Thompson, S.K. <i>et al.</i> "Rational design, synthesis, and crystallographic analysis of a hydroxyethylene-based HIV-1 protease inhibitor containing a heterocyclic P1'-P2' amide bond isoster," <i>Journal of Medicinal Chemistry</i> 37(19):3100-3107 (1994).
<i>JB</i>	CM	Wang and Kollman, "Computational study of protein specificity: The molecular basis of HIV-1 protease drug resistance", <i>PNAS</i> , 98(26):14937-14942 (2001).
<i>JB</i>	CN	Weiner <i>et al.</i> "An All Atom Force Field for Simulations of Proteins and Nucleic Acids," <i>Journal of Computational Chemistry</i> 7(2): 230-52 (1986).

EXAMINER

JBS. Bruce

DATE CONSIDERED

8/8/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: USE OF COMPUTATIONALLY DERIVED PROTEIN STRUCTURES OF GENETIC POLYMORPHISMS IN PHARMACOGENOMICS FOR DRUG DESIGN AND CLINICAL APPLICATIONS

Attachment & Paper 13

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT								ATTY. DOCKET NO. 24737-1906B	SERIAL NO. 09/704,362						
								APPLICANT Ramnarayan et al.							
								FILING DATE November 1, 2000	GROUP -2857/63)						

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
<i>BB</i>		4	2	0	8	4	7	9	06/17/80	Zuk et al.	435	7	07/14/77
		4	2	2	0	4	5	0	09/02/80	Maggio	23	230	04/05/78
		4	2	3	3	4	0	1	11/11/80	Yoshida et al.	435	7	07/14/77
		4	2	3	3	4	0	2	11/11/80	Maggio et al.	435	7	04/05/78
		4	2	7	7	4	3	7	07/01/81	Maggio	422	61	12/10/79
		4	3	8	5	1	2	6	05/24/83	Chen et al.	436	518	03/19/79
		4	3	9	7	9	5	6	08/09/83	Maggio	436	34	12/10/81
		4	7	8	6	4	7	1	11/22/88	Jones et al.	422	21	10/21/83
		4	7	8	9	6	3	1	12/06/88	Maggio	435	7	02/17/84
		4	8	2	8	9	8	1	05/09/89	Maggio	435	7	08/24/83
		4	8	5	9	6	1	0	08/22/89	Maggio	436	518	09/12/86
		5	0	7	9	1	4	2	01/07/92	Coleman et al.	435	202	01/23/87
		5	2	1	5	8	9	9	06/01/93	Dattagupta	435	6	08/23/90
		5	3	3	1	5	7	3	07/19/94	Balaji et al.	364	500	12/14/90
		5	5	7	1	8	2	1	11/05/96	Chan et al.	514	312	05/20/94
		5	5	7	9	2	5	0	11/26/96	Balaji et al.	364	496	04/24/95
		5	6	1	2	8	9	5	03/18/97	Balaji et al.	364	496	04/21/95
*		5	7	1	2	1	4	5	01/27/98	Houghton et al.	435	219	09/06/96
		5	8	0	8	9	6	9	09/15/98	Arnaud et al.	367	103	12/04/95
		5	8	3	7	4	6	4	11/17/98	Capon et al.	435	6	01/29/97
		5	8	4	6	7	6	3	12/08/98	Lee et al.	435	69.1	05/13/94
		5	9	1	0	4	7	8	06/08/99	Hlavka et al.	514	9	09/20/96

FOREIGN PATENT DOCUMENTS

EXAMINER

*J.W. Brusse*DATE CONSIDERED *8/8/02*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)							ATTY. DOCKET NO. 24737-1906B	SERIAL NO. 09/704,362
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT							APPLICANT Ramnarayan <i>et al.</i>	
							FILING DATE November 1, 2000	GROUP 2857 163 /

		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No
<i>BS</i>		0	0	5	7	3	0	9	09/28/00	PCT	—	—
<i>BS</i>		9	7	2	7	3	1	9	07/31/97	PCT	—	—
<i>BS</i>		9	7	2	7	4	8	0	07/31/97	PCT	—	—
<i>BS</i>		9	9	0	6	5	9	7	02/11/99	PCT	—	—

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>not considered</i>	/	3D QSAR in Drug Design-Kubinyi, H (ed.) Kluwer Academic Publishers (1993). <i>no copy provided</i>
<i>BS</i>	/	Abagyan <i>et al.</i> Biased Probability Monte Carlo Conformational Searches and Electrostatic Calculations for Peptides and Proteins, <i>J. Mol. Biol.</i> 235 : 983-1002 (1994).
	/	Abagyan <i>et al.</i> Protein structure prediction by global energy optimization, <i>Comput. Simul. Biomol. Syst.</i> 3 :363-94 (1997).
*		Ajay <i>et al.</i> , Computational Methods to Predict Binding Free-Energy in Ligand-Receptor Complexes, <i>Journal of Medicinal Chemistry</i> , 38 (26):4953-4967 (1995).
	/	Altschul, Gap costs for multiple sequence alignment, <i>J. Theor. Biol.</i> , 138 :297-309 (1989)
	/	Altschul and Lipman, Trees, stars and multiple biological sequence alignment, <i>SIAM J. Appl. Math.</i> , 49 :197-209 (1989)
	/	Altschul, Leaf pairs and tree dissections, <i>SIAM J. Discrete Math.</i> , 2 :293-299 (1989)
	/	Altschul <i>et al.</i> , Weights for data related by a tree, <i>J. Molec. Biol.</i> , 207 :647-653 (1989)
	/	Altschul <i>et al.</i> Basic Local Alignment Search Tool, <i>J. Mol. Biol.</i> 215 : 403-10 (1990).
*		Balaji <i>et al.</i> , Conformational studies on model peptides with 1-aminocyclopropane 1-carboxylic acid residues, <i>Pept. Res.</i> 7 (2):60-71 (1994).
*		Balaji <i>et al.</i> , Conformational studies on model peptides with 1-aminocyclobutane 1-carboxylic acid residues, <i>Pept. Res.</i> 8 (3):178-86 (1995).
*		Balasubramaniam <i>et al.</i> , [D-TRP ³²]Neuropeptide Y: A Competitive Antagonist of NPY in Rat Hypothalamus, <i>J. Med. Chem.</i> 37 (6):811-815 (1994).
	/	Balasubramanian, R., New type of representation for mapping chain-folding in protein molecules, <i>Nature</i> 266 : 856-57 (1977).
	/	Bernstein <i>et al.</i> , The protein data bank: a computer-based archival file for macromolecule structures, <i>J. Mol. Biol.</i> , 112 :535-542 (1977)

EXAMINER

John B. Bruno

DATE CONSIDERED

8/8/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 24737-1906B	SERIAL NO. 09/704,362
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Ramnarayan <i>et al.</i>	
		FILING DATE November 1, 2000	GROUP 2857 / b3)

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>not considered</i>	/	<i>Biocomputing: Informatics and Genome Projects</i> , Smith, D.W., ed., Academic Press, Inc., San Diego (1994). <i>no copy provided</i>
*	/	Böhm, Prediction of binding constants of protein ligands: A fast method for the prioritization of hits obtained from de novo design or 3D database search programs, <i>Journal of Computer-Aided Molecular Design</i> , 12:309-323 (1998).
<i>b3</i>	/	Bouras <i>et al.</i> Design, Synthesis, and Evaluation of Conformationally Constrained Tongs, New Inhibitors of HIV-1 Protease Dimerization, <i>J. Med. Chem.</i> 42: 957-62 (1999).
	/	Carrillo, H. and D. Lipman., The Multiple Sequence Alignment Problem in Biology, <i>SIAM J. Appl. Math.</i> 48(5): 1073-82 (1988).
	/	Carson and Bugg, Algorithm for ribbon models of proteins, <i>J. Mol. Graphics</i> , 4:121-122 (1986)
	/	Carson, Ribbons 2.0, <i>J. Appl. Cryst.</i> , 24:958-961 (1991)
	/	Carson, Ribbon models of macromolecules, <i>J. Mol. Graphics</i> , 5:103-106 (1987)
	/	Carson, Ribbons, <i>Methods in Enzymology</i> , R.M. Sweet and C.W. Carter, eds, Academic Press, 277:493-505 (1997)
*		↓ Checa <i>et al.</i> , Assessment of Solvation Effects on Calculated Binding Affinity Differences: Trypsin Inhibition by Flavonoids as a Model System for Congeneric Series, <i>J. Med. Chem.</i> 40:4136-4145 (1997).
<i>not considered</i>	/	<i>Computational Molecular Biology: Sources and Methods for Sequence Analysis</i> Lesk, A.M., ed. Oxford University Press, New York (1988) <i>no copy provided</i>
*	/	Daniels, Blood group polymorphisms: molecular approach and biological significance, <i>Transfus. Clin. Biol.</i> 4:383-390 (1997).
*		↓ Das <i>et al.</i> , Crystal Structures of 8-Cl and 9-Cl Complexed with Wild-type HIV-1 RT and 8-Cl TIBO Complexed with the Tyr181Cys HIV-1 RT Drug-resistant Mutant, <i>J. Mol. Biol.</i> 264:1085-1100 (1996).
	/	Devereux <i>et al.</i> A comprehensive set of sequence analysis programs for the VAX, <i>nucl. Acids Res.</i> 12(1): 387-95 (1984).
	/	↓ Dudek <i>et al.</i> Protein Structure Prediction Using a Combination of Sequence Homology and Global Energy Minimization: II. Energy Functions, <i>Journal Computational Chemistry</i> 19: 548-73 (1998).

EXAMINER

*J.S. Busca*DATE CONSIDERED *8/8/02*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 24737-1906B	SERIAL NO. 09/704,362
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Ramnarayan <i>et al.</i>	
		FILING DATE November 1, 2000	GROUP 2857 163)

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

*		Eldridge <i>et al.</i> , Empirical scoring functions: I. The development of a fast empirical scoring function to estimate the binding affinity of ligands in receptor complexes, <u>Journal of Computer-Aided Molecular Design</u> . 11:425-445 (1997). <i>JB</i>
*		Erickson <i>et al.</i> , Structural Mechanisms of HIV Drug Resistance, <u>Annu. Rev. Pharmacol. Toxicol.</u> 36:545-71 (1996).
*		Fox, S. Pharmacogenomics Thrives in Europe. <u>Genetic Engineering News</u> . June 15, 1999.
	/	Goodsell, D.S. and A. J. Olson, Automated Docking of Substrates to Proteins by Simulated Annealing, <u>Proteins: Structure Function, and Genetics</u> 8: 195-202 (1990).
↓	/	Gribskov, M. and R.R. Burgess., Sigma factors from <i>E. coli</i> , <i>B. subtilis</i> , phage SP01, and phage T4 are homologous proteins, <u>Nucl. Acids Res.</u> 14(1): 6745-63 (1986).
<i>not considered</i>		<u>Guide to Human Genome Computing</u> Bishop, M., ed. Academic Press, Inc., San Diego (1994). <i>No copy provided</i>
<i>JB</i>	/	Gulnik <i>et al.</i> Kinetic Characterization and Cross-Resistance Patterns of HIV-1 Protease Mutants Selected under Drug Pressure, <u>Biochemistry</u> 35: 9282-7 (1995).
	/	Habuka <i>et al.</i> Crystal Structure of HCV NS3 protease, <u>Jikken Igaku</u> 15(19): 2308-13 (1997). <i>no translation or statement of relevance</i>
<i>JB</i>	/	Hess <i>et al.</i> , Impact of Pharmacogenomics on the Clinical Laboratory, <u>Molecular Diagnosis</u> 4(4):289-98 (1999).
	/	Higgins <i>et al.</i> , <u>CABIOS</u> , 8:189-191 (1991)
*		Ingallinella <i>et al.</i> , Potent Peptide Inhibitors of Human Hepatitis C Virus NS3 Protease Are Obtained by Optimizing the Cleavage Products, <u>Biochemistry</u> . 37:8906-8914 (1998).
	/	Jacobsen <i>et al.</i> Characterization of Human Immunodeficiency Virus Type 1 Mutants with Decreased Sensitivity to Protease Inhibitor Ro 31-8959, <u>Virology</u> 206: 527-34 (1995).
	/	Kim <i>et al.</i> Crystal Structure of the Hepatitis C virus Ns3 Protease Domain complexed with a Synthetic NS4A Cofactor Peptide, <u>Cell</u> 87: 343-355 (1996).
	/	Klabe <i>et al.</i> Resistance to HIV Protease Inhibitors: a Comparison of Enzyme Inhibition and Antiviral Potency, <u>Biochemistry</u> 37: 8735-42 (1998).
↓	/	Kohlstaedt <i>et al.</i> Crystal Structure at 3.5 Angstrom Resolution of HIV-1 Reverse Transcriptase Complexed with an Inhibitor, <u>Science</u> 256: 1783-1790 (1992).

EXAMINER

JB. Brusco

DATE CONSIDERED

8/8/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 24737-1906B	SERIAL NO. 09/704,362
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Ramnarayan <i>et al.</i>	
		FILING DATE November 1, 2000	GROUP -2857 1631

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>PSB</i>	/	Kroeger <i>et al.</i> Molecular modeling of HIV-1 reverse transcriptase drug-resistant mutant strains; implications for the mechanism of polymerase action, <i>Protein Engineering</i> <u>10</u> (12): 1379-1383 (1997).
	/	Kuntz <i>et al.</i> Structure-Based Strategies for Drug Design and Discovery, <i>Science</i> <u>257</u> : 1078-82 (1992).
	/	Kuntz <i>et al.</i> A Geometric Approach to Macromolecule-Ligand Interactions, <i>J. Mol. Biol.</i> <u>161</u> : 269-288 (1982).
	/	Lambert, M., Docking Conformationally Flexible Molecules into Protein Binding Sites, in <i>Practical Application of Computer-Aided Drug Design</i> , Charifson, ed. Mercel Dekker, NY, pp.243-303. (1997).
*		Leheny <i>et al.</i> Symposium on Resistance Highlights New Trends in AIDS Treatments: Implications for BioChem Pharma and Others, <u>Hambrecht & Quist LLC Institutional Research</u> , pp. 1-7 (1997).
	/	Lipman <i>et al.</i> , A tool for multiple sequence alignment, <i>Proc. Natl. Acad. Sci. USA</i> <u>86</u> :4412-5 (1989).
*		Love <i>et al.</i> , The Crystal Structure of Hepatitis C Virus NS3 Proteinase Reveals a Trypsin-like Fold and a Structural Zinc Binding Site, <i>Cell</i> . <u>87</u> :331-342 (1996).
*		Manavalan <i>et al.</i> , Location of Potential Binding Sites on Deoxy Hemoglobin for the Design of Antigelling Agents, <i>J. Mol. Biol.</i> <u>223</u> :791-800 (1992).
<i>↓</i>	/	Maschera <i>et al.</i> Human Immunodeficiency Virus, <i>J. Biol. Chem.</i> <u>271</u> (52): 33231-5 (1996).
<i>not considered</i>	/	Methods in Molecular Biology vol. 24: Computer Analysis of Sequence Data, Part 1 Griffin, A. and H.G. Griffin, eds. Humana Press, Inc. Totowa, New Jersey (1994).
<i>PSB</i>	/	Momany <i>et al.</i> Energy Parameters in Polypeptides. VII. Geometric Parameters, Partial Atomic Charges, Nonbonded Interactions, Hydrogen Bond Interactions, and Intrinsic Torsional Potentials for the Naturally Occuring Amino Acids, <i>The Journal of Physical Chemistry</i> <u>79</u> (22): 2361-81 (1975).
*		Munson <i>et al.</i> , Identification of an extracytoplasmic region of H ⁺ , K(+)- ATPase labeled by a K(+)-competitive photoaffinity inhibitor, <i>J. Biol. Chem.</i> <u>266</u> (28):18976-88 (1991).
<i>↓</i>	/	Murcko, M.A., An Introduction to De Novo Ligand Design, in <i>Practical Application of Computer-Aided Drug Design</i> , Charifson, ed. Mercel Dekker, NY, pp.305-354. (1997).

EXAMINER

*J.B. Brusen*DATE CONSIDERED *8/8/02*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 24737-1906B	SERIAL NO. 09/704,362
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Ramnarayan <i>et al.</i>	
		FILING DATE November 1, 2000	GROUP 2857 163

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

*	/	Nanni <i>et al.</i> . Review of HIV-1 reverse transcriptase three-dimensional structure: Implications for drug design, <i>Perspectives in Drug Discovery and Design</i> 1: 129-50 (1993).
	/	Needleman, S.B. and C.D. Wunsch., A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins, <i>J. Mol. Biol.</i> 48: 443-53 (1970).
	/	Nemethy <i>et al.</i> . Energy Parameters in Polypeptides. 10. Improved Geometrical Parameters and Nonbonded Interactions for Use in the EEPP/3 Algorithm, with Application to Proline-Containing Peptides, <i>J. Phys. Chem.</i> 96: 6472-84 (1992).
	/	Nicholls <i>et al.</i> , Protein folding and association: insights from the interfacial and thermodynamic properties of hydrocarbons, <i>PROTEINS, Structure, Function and Genetics</i> , 11:281-296 (1991)
*		Novotny <i>et al.</i> , Empirical Free Energy Calculations: A Blind Test and Further Improvements to the Method, <i>J. Mol. Biol.</i> 268:401-411 (1997).
*		Ortiz <i>et al.</i> , Prediction of Drug Binding Affinities by Comparative Binding Energy Analysis, <i>J. Med. Chem.</i> 38:2681-91 (1995).
	/	Pazhanisamy <i>et al.</i> . Kinetic Characterization of Human Immunodeficiency Virus Type-1 Protease-resistant Variants, <i>J. Biol. Chem.</i> 271(30): 17979-85 (1996).
	/	Pearson, W.R. and D.J. Lipman., Improved tools for biological comparison, <i>Proc. Natl. Acad. Sci. USA</i> 85: 2444-8 (1988).
	/	Ponnuswamy <i>et al.</i> , Hydrophobic Packing and Spatial Arrangement of Amino Acid Residues in Globular Proteins, <i>Biochimica et Biophysica Acta</i> 623:301-16 (1980).
	/	Ponnuswamy and Prabhakaran, Properties of nucleation sites in globular proteins, <i>Biochem. and Biophys. Res. Comm.</i> , 97:1582-1590 (1980)
	/	Prabhakaran <i>et al.</i> , Sequencing and model strucuture of a <i>Naja naja atra</i> protein fragment, <i>J. Peptide Res.</i> 56:12-23 (2000).
*	/	Press Release, Structural Bioinformatics Inc. Generates Antiviral Lead Compound from Gene Sequence to Achieve Milestone in Biochem Pharma Collaboration, <u>SBI News</u> . Located at http://strubix.com/press/press20.html , pp. 1-2 (1998).
*	/	Press Release, SBI's Protein Structure Directed Combinatorial Chemistry Cuts Time and Cost 100X for Synthesis of New Anti-Inflammatory Drug Lead Molecules (TNF Receptor Antagonists), <u>SBI News</u> . Located at http://strubix.com/press/press19.html , pp. 1-2 (1998).

EXAMINER

JR. Brusa

DATE CONSIDERED

8/8/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 24737-1906B	SERIAL NO. 09/704,362
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Ramnarayan <i>et al.</i>	
		FILING DATE November 1, 2000	GROUP 2857 / 631

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

*	/	Press Release, SBI Protein Models & Ligand Binding for Novel Viral Enzyme Validated, <u>SBI News</u> . Located at http://strubix.com/press/press32.html , pp. 1-2 (1999).
*	/	Press Release, Structural Bioinformatics Inc. Generates Non-Peptide Lead Molecules Active Against the EPO Receptor from Gene Sequence Data, <u>SBI News</u> . Located at http://strubix.com/press/press22.html , pp. 1-2 (1998).
*	/	Press Release, Structural Bioinformatics Inc. Develops Small-Molecule Antagonists of BCL-2 Gene Product, an Important Apoptosis-Related Protein Target in the Pathology of Human Cancers, <u>SBI News</u> . Located at http://strubix.com/press/press26.html , pp. 1-2 (1999)
		Press Release, IBM invests in Structural Bioinformatics, a Leading Life Sciences Company; Deal Will Accelerate Drug Discovery Through Faster Modeling of Proteins, Press Release: Nov. 29, 2000, http://www/strubix.com/press/index.html
		Press Release, Moldyn Technology Enhances the Computational Proteomics Repertoire of SBI to Address the Challenges of 21st Century Molecular Medicine, Press Release: Dec. 5, 2000, http://www/strubix.com/press/index.html
		Press Release, De Novo Pharmaceuticals Accesses Cutting Edge Protein Targets by Subscription to Structural Bioinformatics' ProMax Database Series and Sbdbase, Press Release: Nov. 21, 2000, http://www/strubix.com/press/index.html
		Press Release, Structural Bioinformatics Inc. and Quest Diagnostics Announce Launch of Structural Pharmacogenomic Databases for HIV Drug Development, Press Release: Jan 11, 2000, http://www/strubix.com/press/index.html
		Press Release, Structural Bioinformatics' SBdBBase 2.0 Provides Improved Functionality for Analyzing Protein Structure to Optimize Drug Candidates, Press Release: Jan. 10, 2000, http://www/strubix.com/press/index.html
	/	Press Release, Quest Diagnostics Invests in Structural Bioinformatics, A Leader in Computational Proteomics and Structural Pharmacogenomics, Press Release: Dec. 14, 2000, http://www/strubix.com/press/index.html
*		Press Release, Structural Bioinformatics Inc. Selects IBM RS/6000 SP to Speed Drug Design, <u>SBI News</u> . Located at http://strubix.com/press/press11.html , pp. 1-2 (1997).
*		Press Release, Structural Bioinformatics Inc. and Cyberchemics, Inc. Collaborate to Speed the Generation of Hepatitis C Viral Protease Inhibitors, <u>SBI News</u> . Located at http://strubix.com/press/press5.html , pp. 1-2 (1997).

EXAMINER

J.B. Brusca

DATE CONSIDERED

8/18/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 24737-1906B	SERIAL NO. 09/704,362
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Ramnarayan <i>et al.</i>	
		FILING DATE November 1, 2000	GROUP 2857 1631

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>J/B</i>		<i>QSAR and Drug Design: New Developments and Applications</i> T. Fugita, ed. Elsevier Science B.V. (1995) pp.3-81.
*		Radack <i>et al.</i> , Intercorrelations and sources of variability in three mutagenicity assays: a population-based study, <i>Mutation Research</i> , 350 (1996); pp. 295-306.
*		Radmer <i>et al.</i> , The application of three approximate free energy calculations methods to structure based ligand design: Trypsin and its complex with inhibitors, <i>Journal of Computer-Aided Molecular Design</i> , 12:215-227 (1998).
	/	Ramnarayan <i>et al.</i> The effect of polarization energy on the free energy perturbation calculation, <i>J. Chem. Phys.</i> 92(12): 7057-67 (1990).
*		Ramnarayan <i>et al.</i> , Antibody humanization predicted by computer graphic analysis, <i>Am. Biotechnol. Lab.</i> 13(9):26,28 (1995).
*		Ramnarayan <i>et al.</i> , Conformational studies on model dipeptides of Gly, L-Ala and their C ^a -substituted analogs, <i>Int. J. Pept. Protein Res.</i> 45(4):366-76 (1995).
*		Ramnarayan <i>et al.</i> , Characterization of a Linear Pentapeptide Containing Two Consecutive β -Turns, <i>Pept. Res.</i> 7(5):270-8 (1994).
*		Rao <i>et al.</i> , Conformational Studies on β -Amino Acid-Containing Peptides. I., <i>Pept. Res.</i> 5(6):343-50 (1992).
*		Regaldo, Inventing the pharmacogenomics business, <i>Am. J. Health-Syst. Pharm.</i> 56:40-50 (1999).
<i>not considered</i>	/	Richter, R., AIDS drugs found to be effective in world's most common HIV strains January 20, 1999. <i>No place of publication</i>
	/	Salamov and Solovyev, Prediction of protein secondary structure by combining nearest-neighbor algorithms and multiple sequence alignments, <i>J. Mol. Biol.</i> 247:11-15 (1995)
	/	Schapira <i>et al.</i> Prediction of the binding energy for small molecules, peptides, and proteins, <i>J. Mol. Recognition</i> 12: 177-90 (1999).
<i>↓</i>	/	Schwartz, R.M. and M.O. Dayhoff., Matrices for Detecting Distant Relationships, Chapter 23 of: <i>Atlas of Protein Sequence and Structure</i> Dayhoff, M.O. ed. National Biomedical Research Foundation pp.353-8 (1978).
<i>not considered</i>	/	<i>Sequence Analysis Primer</i> Gribskov, M. and J. Devereux (eds.), W.H. Freeman and Company: New York (1992). <i>Copy not provided</i>

EXAMINER

J.B. Brusca

DATE CONSIDERED

8/8/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 24737-1906B	SERIAL NO. 09/704,362
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Ramnarayan <i>et al.</i>	
		FILING DATE November 1, 2000	GROUP 2857 1631

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>not considered</i>	<i>Sequence Analysis in Molecular Biology. Treasure Trove or Trivial Pursuit</i> von Heijne, G. ed. Academic Press, Inc. San Diego (1987). <i>no copy provided</i>
* <i>B3</i>	Shafer <i>et al.</i> , Multiple Concurrent Reverse Transcriptase and Protease Mutations and Multidrug Resistance of HIV-1 Isolates from Heavily Treated Patients, <i>Annals of Internal Medicine</i> . 128(11):906-11 (1998).
/	Shafer <i>et al.</i> Human Immunodeficiency Virus reverse Transcriptase and Protease Sequence Database, <i>Nucl. Acids Res.</i> 27(1): 348-52 (1999).
/	Shafer <i>et al.</i> Identification of Biased Amino Acid Substitution Patterns in Human Immunodeficiency Virus Type 1 Isolates from Patients Treated with Protease Inhibitors, <i>Journal of Virology</i> 73(7): 6197-6202 (1999).
/	Shoichet <i>et al.</i> Structure-Based Discovery of Inhibitors of Thymidylate Synthase, <i>Science</i> 259: 1445-50 (1993).
	Shoichet, B.K. and I.D. Kuntz, Protein Docking and Complementarity, <i>J. Mol. Biol.</i> 221: 327-46 (1991).
*	Shoichet <i>et al.</i> , Ligand Solvation in Molecular Docking, <i>Proteins: Structure, Function, and Genetics</i> . 34:4-16 (1999).
*	Skaletsky <i>et al.</i> , Accessing three-dimensional chemical information in antibody molecules, <i>Am. Biotechnol. Lab.</i> 11(5):10-3 (1993).
/	Smith, T. F. and M. S. Waterman., Comparison of Biosequences, <i>Adv. Appl. Math.</i> 2: 482-489 (1981).
*	Smith <i>et al.</i> , Molecular modeling of HIV-1 reverse transcriptase drug-resistant mutant strains: implications for the mechanism of polymerase action, <i>Protein Engineering</i> . 10(12):1379-83 (1997).
*	Spear, Viewpoint - Pharmacogenomics: Today, Tomorrow, and Beyond, <i>Drug Benefit Trends</i> . 11(2):53-54 (1999).
*	Steinkuhler <i>et al.</i> , Product Inhibition of the Hepatitis C Virus NS3 Protease, <i>Biochemistry</i> . 37:8899-8905 (1998).
/	Stewart <i>et al.</i> Automated 3D Decking: Inhibitors of α -Chymotrypsin, <i>Medicinal Chemistry Research</i> 1: 439-443 (1992).
✓	Takamatsu <i>et al.</i> , A New Method for Predicting Binding Free Energy Between Receptor and Ligand, <i>Proteins: Structure, Function, and Genetics</i> . 33:62-73 (1998).

EXAMINER

JL Brusca

DATE CONSIDERED

8/8/00

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 24737-1906B	SERIAL NO. 09/704,362
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Ramnarayan <i>et al.</i>	
		FILING DATE November 1, 2000	GROUP 2857 / 63 /

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

*	<i>JB</i>	Tantillo <i>et al.</i> Locations of Anti-AIDS Drug Binding Sites and Resistance Mutations in the Three-dimensional Structure of HIV-1 Reverse Transcriptase, <u>J. Mol. Biol.</u> 243:369-387 (1994).
*		Vajda <i>et al.</i> Empirical potentials and functions for protein folding and binding, <u>Theory and Simulation</u> . 7:222-228 (1997).
	/	Vriend, G., WHAT IF: A molecular modelling and drug design program, <u>J. Mol. Graphics</u> 8:52-6 (1990).
*		Wang <i>et al.</i> , Calculation of Relative Binding Free energies and Configurational Entropies: A Structural and Thermodynamic Analysis of the Nature of Non-polar Binding of Thrombin Inhibitors Based on Hirudin ⁵⁵⁻⁶⁵ , <u>J. Mol. Biol.</u> 253:473-492 (1995).
*		Wang <i>et al.</i> , Analysis of Thermodynamic Determinants in Helix Propensities of Nonpolar Amino Acids through a Novel Free Energy Calculation, <u>J. Am. Chem. Soc.</u> 118:995-1001 (1996).
	/	Wang <i>et al.</i> , Toward Designing Drug-Like Libraries: A Novel Computational Approach for Prediction of Drug Feasibility of Compounds, <u>J. Comb. Chem.</u> 1:524-33 (1999).
	/	Weiner <i>et al.</i> An All Atom Force Field for Simulations of Proteins and Nucleic Acids, <u>Journal of Computational Chemistry</u> 7(2): 230-52 (1986).
*		Weng <i>et al.</i> , Prediction of protein complexes using empirical free energy functions, <u>Protein Science</u> . 5:614-626 (1996).
*		Yan <i>et al.</i> , Complex of NS3 protease and NS4A peptide of BK strain hepatitis C virus: A 2.2 Å resolution structure in a hexagonal crystal form, <u>Protein Science</u> 7:837-847 (1998).
*		Zhou <i>et al.</i> How and why phosphotyrosine-containing peptides bind to the SH2 and PTB domains, <u>Folding & Design</u> . 3(6):513-522 (1998).
*		Zhu <i>et al.</i> , Identification of two new hydrophobic residues on basic fibroblast growth factor important for fibroblast growth factor receptor binding, <u>Protein Engineering</u> 11(10):937-40 (1998).
*		Zhu <i>et al.</i> , Analysis of high-affinity binding determinants in the receptor binding epitope of basic fibroblast growth factor, <u>Protein Eng.</u> 10(4):417-21 (1997).
*	↓	Zhu <i>et al.</i> , Glu-96 of basic fibroblast growth factor is essential for high affinity receptor binding. Identification by structure-based site-directed mutagenesis, <u>J. Biol. Chem.</u> 270(37):21869-74 (1995).

EXAMINER

Joh. Buss

DATE CONSIDERED

8/8/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.